

81 October-6 November 1985

WEEKLY

Mis the best selling weekly

BBC sales block



patiently deemed kly Assert, and drift. The Dimens Derryy group statistics is now the only large chain to discounce at all the Dictorion — de not concern at the Dictorion — de not concern at the Dictorion — de not control pack price of \$99.0% at the BOO This Assertance at and software.

18C 2 seminates are Sangley Sangley the Statistics of the SECT Plane SEC. Seminates are Sangley Sangley to the SECT Plane SEC. Seminates are Sangley Sangley to the SECT Plane SEC. Seminates are Sangley Sangley and SEC.

tone in a species of 100 MeV in the making them in death record fill the property of the prope

solid of the limit, model yet solider, but I'm planning we show the limit of the li





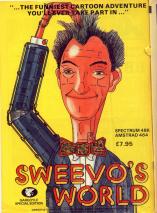
this WEEK'S NEWS

IVIICR

Find out if you have we Anatted 6130 this week least some special Pro Companing Weekly can

1570 DISC DRIVE ARRIVES
 RUMBELOWS DROPS SPECTRUM

PERIPHERALS GALORE IN HARDWARE BONANZA



CONTENTS

Vol 4 No 43

4 NEWS

MICRO MAGIC Another 6128 to be won this week . . . so get

10 SOFTWARE REVIEWS Firebring Warrior on Spectrum - Zyto on C64

14 HARDWARE REVIEWS

16 STAR GAME Make your political statement on Spec

18 BBC AND ELECTRON

21 COMMODORE 64

22 AMSTRAD

25 THE QL PAGE

25 Adventure Corner

35 Readers Chart 36 This Week 54 Puzzle, Ziggarat

Computer Trade Association Magazine of the Year

IAIRO

The Advanture of Control Accounts of Control A ABC

Popular Computing Weekly, Tel: 61-627-6343

ADVERTISEMENT orise gives a musician much greater flexibility in the pr arrangement of music' - pro musician Robert Hartshorne News Desk 01-437 4343

Drive and monitor by for C128 emerge

for the mirror, died drive and

'badge'
QL printer
SNOLLE has now signed
appeared to hadge'

Holiday package row

A marine of error data.

The Commodern Proclause
That Commodern Proclause
that was well estended sich
the natable of twentiers in the
twenday oward estimated at

Rumbelows drops

Rumbelows drops

the show

sparked by Benidorm

FANE of Molbourn House's monyed that the package holiday adventure forcemental and to their distinct of the size of temple of temple

Spectrum as stores plan Xmas ranges

EMMILIONIS has become the Aberi 12002 over Constant to Sur Logs rever wires to dain to the Control and th



well not made a decision of whether to remind a decision of whether to remind a decision of the Operators Time at QL for Commission Co. Decisions and the Commission Co. Decisions and the College of Commission Co. Decision of Commission Co. Decision of Commission Co. Decision Co



of LIMAND Reporture. First
Gazgo, "Times search to Get Occasional
sea date up that permittable
se of the market- and the marketsea of the marketsea of

More ne





Amstrad/C64 48K Spectrum/Spectrum+ £6.95

£7.95



MIRRORSOFT



NICER

THE FIRST EVER MIKRO-PLUS GAME

Nearly 50% bigger and better game for the Spectrum

- ·Built-in joystick port
- Back-up facility to Microdrive
- Rack-up facility to Tape
- •Tape alignment routine for trouble free loading





Success of PCW8256 threatens shortage AMSTRACT new PCW 0256 ling control but it is a tight

holds firm \$61.5m (about £65m) and 1984, when they totalled \$1.5285 (\$1.1638) but upofits

Morris Walk, Nowport Acorn trouble

Micro Magic



Popular Computing Weekly Micro Magic



Christmas, Not only that, but every Micro Magic card is a warner - every card wins a runner-up E) Input your special Misso Magic your

special Missee Magic card. Then send

If you think you've won complete the form on the back of your Micro Martie card and send it to: Micro Megic. Posular Cor

Marter Week 5 Program

This week's winning Micro Magic Numbers: 573640 and 336952 More Magic sprin can only be absorat to low with the sequence unlined by Jose Frank Participants are contined to

Reviews

Word power

Program Project Micro

Till Provide Con in-Head hanger

That does Seven

Dog dodge Droad Mileso Spectrum Price

on days when we so

John Minson

eletetete

THE ULTIMATE GAMES FOR THE

Commodore 64





Sabre Wulf and Underwurlde are available on the Commodore 64 at \$9.95 in: AVA





Reviews



For the birds

The and Cheep are a value of the control of the con

In tune
begram Shelordive Fana
Seen Spectrum/Common
ore Prices E.S.S. Sapplies
opend Sellwan, Darrace
lean Nethol MS. Sendon

L like me, you these people lately ranes backware, but I secondary gulls an official is properly ng General Zelf is belowsseder Krysi.

guesta - who
geolody ras
profesibly ras
the mad when
they had been
cheep's inconsect chirspring - is a
journey along
access of
ad even, and the midne right frameds and
as escenated the sinbeautiful and an extensive or a

minimals, such as rai, not as row, you can sears than off, the last Jogic mer to consider the last Jogic mer to consider red such fair that you have to it wisks. Apart from my antipathy to to chase-form - and first served you. — the game is body gain. — the game is body cessated. The litationalists are unclear and it look ever-

ofeer and it took saw what to do. The midds is the most interest in the most interest in the most interest or children but deep net use of single it it seems to drag y, by the time Cho use I fissed have a a path even than will ap off. Initial reaction test certaine difficulty levood idea and the whoe could have been on could have been

otion . . and that ide of any age, Me John

Sendle's page and are welling for him to come up with some Shadowfre points wall so more, far here comes

hadrefre point nore, far here com try in the shape of 6 fire Timer. I a very clieved su not. Because it is around with the pr hanging almost set to want, thus ellowed reached their own gr

crease their own gms personnel on patiol routes which 'making' processible the main game, is stricted and little by the strict and little by the strict and the 'holp' see up, the seemen you to enable you to enable you to enable you.

Zat all?

Fregues Zyo Micro Commoders 64 Price ELSO Supplies Rabbit 54 Verson Yard 110 Femalesto Rd.

Tan not sure should be rose if he now if he

the control of the co

coming all the used gauges for mosticing fast, series.

Speed hills?

Program Moder II Micro Spectrum Price 113.95 Supplace Pds. 4th Stoomy Stanton Sand, Coverny CVI EDS.

Le a harm Poste creeps
libe a mell. A complete produces code from the Saint
program.

Set against this, most complease demand a much reduced hasic. They are unshin
to convent werey hasic comraund use code, often deferant francisms and attriag hascling. Mevalet '25, cliniar as
headile virtually the whole
language, so the '05 for pay!

reen you decide wh ace the objects and o as in the game and is e characteristic at or example, the we very item can be adstreet out to edd at old souther changed

example, the weight of the common the adjustment of the adjustment of the colors for the colors

witten hett yeer albig is en tag devenier bet yeer albig is van het hig through houself fire et lag tans ook walkt, wh albice tappears be not a which form the longist promision of paids squares, named off by I through them at fall is yet through them at fall in yet through them at fall is yet to be a fall or years to be a fall or years to be a fall or years.

agains tim off which item, because fring the same, because fring the same and the price is a same and the sam

j is in two stages to ic then transform i consister releasion the source an

Mecolar.

The practice: What been way to see those claims the to due off a book of laring and type is a libberto scrosic like a coade game? Mose minutes larer for ready? occupied tel Mende sairt. To a f might I can't see why won't handle a High See Table.

There's no body in the search of the coade of t

sere's no help in 6
ry documentsion, is
seen programs had
reciable speed increas
unbelpful artitude to ere
play spoils what is prob
a good choice - if r fails
are, pesses 765.

John Mine

os created by the infifty namble and incompanion with those in by the Shadowtire in, so a previously is as one to modified.

pama can be medided.
Personally, I intendi zensy with all the pearcan have the settled walking Mano straight and winning the easy we Kedy

6666



ardware Speculrum Miere Specards on table time. I am bissed MICROS Decision il secono to mo to

You can even synchronise your

Graham Taylor

type Son carridges. The restines they

No toy Randware AMX Mouse Amattaid CPC range Price plier Advanced Memory Cross Lane, Appleton, Wa

The AMX mouse system made in first appearance for the BEC midger and its transition to the Amatonia in our asymptotic to a manifolder how a very similar graphics may be a series of the series of t

new sty 69 possession as regiones maps of 800 mapper software in mix mass as plasmed for the Amateut.

To see up the systems you just fit a loan to possession as a calcle from the thom to see the system and the system of the software possessed via a calcle from the thom to see computers load. The loan load from the 880 version, plage, Movement of the means in from translated into the proper load to the system of the proper load of the proper lo

where the EC version, plage, Movemen of the recess is their sensitive to the property of the recess in the resolution for its property of the recess in the resolution for the property of the recess of the property of the recess of the property of the recess of the rec

are present - in shart all you need to a up a windows/toun-driven program, your own. Because of the lashings space memory offered by the CPC on pared to the IBC B in high res, software Dicts were their

Picture this

Hardware Enterprise/Fidelity TV
Monitor Price \$250.00 Misrs Varicas Supplies Enterprise Conguence
11-07 Heater Street, London N1-0N1

PUT here are a number of reset rese

The sound for beying a monitor for your succession of the political property for the relatively firedout, such as the largelipse explication when you say the almost to the could—ever ty reacting for combine text on a wealthy TV parane while wood precessing.

There is, however, one good years in the real largeling one — out. Recently

telly you can also have the as discort BOB input. The Enterprise TV monito not dedicated to its namesal but wis its II-pix SC 30 de la companya de

ICON FILE - ron

and the second s

is supplied on cassette but AME also

Elloy see. As a services service is a very a similar most from the lade of an transmission of the last service of the service of the last service of the last service of set all transmissions of the last service of last set all transmissions of the last set la last set last set la last set la

original, America peripherals 1 h seen. Tony Kens

despite my quibble about the centre Eap it represents good value, especial as it may be discounted by up to 630



rigation to los of the 10. wed up to sop aerial disconnection totaling mabe instrucdirect 350 a 120 an rightics an c, sharpe

in ten. The man is may our in-cushion (distriction, whis it in test modes and lan't alwith older TVs. is also channelled through jud. while I watts output aly computers' internal upon

via in 11-pia sconnector socket or days of a variety born



Star Game

Color and the law of t

and the same and

BBC & Electron

After the overture Or Noble continues his music creator for the Beeb

This week we continue with the nach The third and final part of the Nation will be retired next mask

BBC & Electron

It's on its way...the BIGGEST show of all!





GIVE YOUR ACORN

(And yourself

ACORN USER CHRISTMAS SHOW

NETWORK GROUP NORWICH COMPUTER STRIEMS MEDISCH COMPUTER COMPANY LITE

hile you're at it!) SCRIFFO & SLEDGE SCRIFFO & SLEDGE VIGLEN COMPUTER SUPPLIES WILLOW SOFTWARE WE SERVE

PINEAPPLE SOFTWARE PALE, CORER SOFTWARE

POPULAR COMPLYING WEEKLY

Commodore 64

Change your standards

the help of a soldering iron and Eric Deahave

Amstrad

Analytical Amstrad

A tenting time in stone for Chernishry shadents on the 464written by Roger Walter

The preparation optications for puter. The preparation is an adapting commission optications for puter. The preparation is an adapting the property of agreed 14+ cestandar programs seen on o pre farly standard accopt that
Deverda's Alloy lead for intrate for
been chosen in predecease to the c
'Ecomorting' see!

The student may choose to goes
identity of the selt at any time. All

of the salt at any time. Alt of the control of the salt is resulted to the control of the salt is research and the salt is research to the time; resulted to the time;

The same of this program is to allow your. given a short description of the sail and. (2.50, My red to the one as Automatical COV-644 comes involved to this one as Automatical COV-644 comes involved to this one as Automatical COV-644 comes involved to this one as a contract to the cont

The state of the s

The state of the s

SE MAN AND THE STREET OF THE S

The state of the s

The control of the co

Peek & Poke



Lost

N F Wall of Rossiny, Shaopaker, scales:

Q I ewn a Genzusolees M Q and since haying the cassette version of The Oall I have been hidden away in my lifes rosen witing adventure after adventure. Reweyer, in my intenture. A lind naws
keep an aid copy
Only desidese, you i
deed lest all your we
fare Adventure epic
the interpreter rode i
with the adventure is
with the adventure as
the lost options
use the lost options

I mierpreier rode log hi the edventure delé delt mesen that yes o a the losed options of LIV to reconstitute to. There seem no roal six retrieving the situation then six ring gapsis. I it you want i want me a but why did you not o deshase after you no o deshase after you no o deshase after you no o deshase after you.

seem no real method wing the situation odsize the situation odsize the size of the contraction of the contraction of the conmitted for the contraction of the contr

ne respecting was I at that the old cheeter of addition is going to be out once again, a developing a piece re, using a generate a different for direct law different in the control of th

See Section 2019 10 NO 121 | Section 2019 10 N

ACTION OF THE PROPERTY OF THE

| Section | Column |

Energy now with this.
The remedies of without the Market I have in Aller at the Market I have in the Market I have in the Market I have in the Market I have I have

ordice I housed in ECTroncies to type-scale ples one raisroctrive. I also have a priass Micronet singurer and as Alphacous 22 prints—Pethologue seems to occur where running Hachquistmen as Develde. If the adapter is connected at 2 is OE. If this is discussively of the printer effects of the printer effects of the printer effects of the politic state of the printer effects of the politic state of the printer effects of the printer of th

O How I wish I could find

This seems to be a power supply problem. I wan't pote underrelend why you get to the with few games, bed I appet that you get your metals checked. You can set if takes are on before looking y Poissing a high address in

C & F ASSOCIATE

THE PROPERTY OF THE PROPERTY

PAGE AND THE CONTROL OF T



place interest of the control of the



SPECTRUM UTILITIES

INTERPRACE III

The state of the s

By International Public Tender

COMMODORS' COMPUTERS, PRINTS
DISK DRIVES, SPARES
POSITIVACYCHEM ARTY ACM FALSE IN STORM OF THE
ALL DRIBES. FELL IN CHOOMS, FACES O CAMPUTERS, PRINTS I LYTTO MARRIED, WITH COMMANDED,

pour Pour VIII de la Company d

[20] Medd 1001 I * Nicoteans Red Cole) Selv. PREVEERI : Nicope Swiny Wheel (J.RI) Stellar (Stellar) Typulone General 11 or Josephen (EEL-M) Noole (Mid-M) Typulone Seattle (Typulone Noole (Mid-M) Typulone Seattle (Typulone

PARKES
OLISIS, H. Explorated Dain, Transference, Minister Cabba, 1980;
ESOS p.A.J. Torden, Pologo Repubero, Torontono, Gapanicos
On viere in Rouderop, Ware Germany, Memdey in Warnshop, 11th, in 18th
Revenibles 1888.
Personne 1888.

HENRY BUTCHER

MIRACLE SYSTEMS LIMITED QL

GL EXPANDERAM 256K C95.00 inc GL EXPANDERAM 512K 1125.00 inc

Use of pastic cover matching Ct,

QL MODAPTOR 239.09 line

Connects Ct, to standard MODEM

Freshes Ct, to use 300000, 10001300, and 120015

Terminal software and PRESTEX software included an informative castridge.

Place sending page and vivi and 14 day for money pagpassants.
Places send for our originages on CENTRONICS OF, JOY STICK ADAPTOR SCREEN DUMP, MOUSE, etc.
MIRACLE SYSTEMS LTD.
AVOIDED A PROPERTING ADDRESS.

AVONDALE WORKSHOPS
WOODLAND WAY
KINGSWOOD ACCESS
BRISTOL STORM

Tel: (0272) 603871 ext 210

10C (031/3) 9038/1 631 510

Hec (027/2) 99387

The QL Page

Adventure - the final task

The final instalment of Adventure for the CL - written by Philip Spreadon The end is at last in night! This week programming hours. we conclude the listing - the final

If you would like a copy of the pers. Markees, Surroutly, Think, Surft Yest-

have for you to while away those non- oil that typing, then send a formatted have it with the program on.

TO DISK CLASS CAND YOU TODAY CANDED THE STREET OF MICE (MICE ONLY)

The second secon V/4 management

EN THE PRODUCTION ...



Arcade Avenue



C64 honanza This week is dedicated

following Points without

Andrew Night: This is

Junale story

Restore Poice

Tony Bridge's Adventure Corner

Tem Da-

sions of Medicap Medicas Missor

solution which may be rether harder to



Mind your manors



TOOCHIIHSTER

£49.50

- pater and effectively bypasses the keyboard!

 * FREE introductory 5 program software pack.
- * No special pen attachment use your linger on the louch sensitive surface
 - * Easy to write your own programs for
- * Available for BBC, CBM64, Spectrum & Dragon * The ideal Christmas present for all ages at

Simply complete the coupon below and payment to: Touchwester, Baylan Indu Baylan, Port Taibot, West Glain, 8A12 7DJ

Pres pack of the Forchware programs: I eliablic pay by Cheque made popular to or Access/MacDiness Supervisor Express Card No. Experience. Some



CLASSIFIED

INDITE SUPPLY AS COMPUTERS LTD

ORIGINAL SOFTWARE CONTENDED SOFTWARE FOR

State of the contract of the second of the s APPLICATIONS Please reply in writing and a

Swap problems solved Street, State on Travellity State THE COOR STORAGE

CLASSIFIED

ADVERTISING RATES:

Conditions All copy for Classified

or new Controlled, & Column

Paper hap your Sandrate or Spectrum .

DESCRIPTION AND ADDRESS OF

IOLE MODOLER FOR ARSTRADS MARKAGE AND A

POPULAR COMPUTING WEEKLY

Here's my classified ad Please write your copy in capital letters on the lines below.)

Please month AW on PM Co.



	e's a Deale	LIVERPOOL	ODFORDSHIRE
AVON		Unespect	DLIE COMPUTERS
DETAILS R IS COMPUTED	THE COMPATER CONTRE	BLE CHP	\$ F1885 1880
TO NORK STREET	S MUST RIM	77 81 1970 9043	HD213
MIN	MILL	LIVERPOOL LIVE STA	DESCRIPTION OF THE PERSON OF T
16 (025 (167)	NORTH HUMBERSON	Tel: 001 72 700 7	14: 0889 34800
No. passey von	m. 7220 1840	INTERESTITION AND ADDRESS.	S. WALES
BESUNCHAN	KEST	LENDON	MAPPLE MICRO ASSOCIATES
DIS MICROFFIX PLETRONICS	INVROS COMPUTERS	LENDER	SECONDET .
108 000,21 8043	7 Belli	SILIGASHOP	80.800 17
WHESH CREEK	Tarteri	14 THE MENS	CWWBRAN
BERNESAM	Bet	HATHERLEY ROAD	DADAT NAMEDAL
76: 021-64-081 ····	36 8022 6198	SIDCUP, KENT	WANTENSERRE
		Tet 81-309 1111	_
ESSEX	dah.		FAST FORMARD COMPUTER ST
INNE MICRO COMPUTER STORE	BOLOVILLO COLOLO	VE 00008S	25 SMTH STREET
O FREEZERS FOR USAN	10 NORTH STREET,	E LENGON BROCK WALK	MISHIOL
SSUTHEND, ESSEX	ASHFORD, KENT	TOWNS BLOCK WAY	Tel: (805) 4638A
34:000,000	Tel: (0233) 32597	Tel: 01-40 1988	YORKSHEE
10. prod a cons		10.47-00.100	
POTIGET PERSONAL COMPUTERS.	MICHORAY COMPUTERS		THE COMPLITER ST
THE DIRECTION OF STREET	25 HON STREET	GAMES MERLO	18 CLEVELAND STREET
TATION TROUS PRODUCE CONTACT	BUSIN, EEF	TS CNG STREET .	DONCASTER
10.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	74: 0034 ENTE	HAMESMITH	Tel: (C00) 25300
1610036801		LONDOVWS	
- April 1	LANCASHIRE	16:11:11:487	THE COMPLITER ST
CLESCOW			19 TOAL STREET
THE COMPLETE SEPECE	33UNO AND 1/2014	SUFFRANCE STORE LTD	WAXERE.D
NO RECKENSE STREET	TI SIJA STRUET	SELENDER STORE COS	14: 0004; 35480
22 19 WORKS	LEGY, LAUCS WA? YAW	1000057007	
Tel: 001 202 2044	Tel: (040) 17088	De 01.65 1275	THE COMPLIER ST
includer name		191. 1790. 1917	A BRIDGE STREET
HERREGREGRES	LEEDS		1000
	**************************************	LOGG SALIS	Tel: (0904) \$40634
KONESET COMPUTES	MONIMUSE.	19 THE BROWDWAY	
17 UNION STREET	MARKET	THE BOURNE, SOUTHGATE	THE COMPLITER ST
HEREFORE HR: 15T	LESS LET DAY	101001 914	44 TRINETY STREET ARCA
Tel: (000) 275404	m 1083-030 H	Tel: 1982 892	LESSE
	LEICESTERSMINE	MANAGETTON	1d: 9520,43054 (gen tov)
MERTFORDSHIRE	LEICESTERSMINE		(dounts)
BROADWAY COMPUTER CENTRE	DIRECUSOR COMPUTERS LTD	MPC SOFTWARE	YORK COMPUTER CENTE
TS OUETIS ROAD	TOTAL SERVICE.	77 JULIAN BOAD	1 STONEGATE ARCADE
WITHOUGHTS	TECELES	WEST BROOFORD	Y088
34:000 COS1	34:003 E103	NOTTHIGHAN NOS SAN	76 (000) 51702
	-	Tel: 0603 83100	

Ì

AST COMPUTER REPAIRS

VIDEO VAULT INTERNATIONAL
10 * REPAIR SERVICE



NOW REPAIRED COURTS CHIEF THE CHIEF

THE LCS From our DAY Section Of the Control of the

Micro Value D. J. Y. Correction Part D. J. Y.

OPEN VICEOVAU



(1) War of the Europetine For Oversent Old Amena? M Alliests World Series Basketball (Spectrum) CS4)) Readers' Chart No 48 Hyperspents (Spectrum OH)
Fed Moos pipestrany CH(18C) Electron g phrase No 40. "Fifty one shopping days till Kenan, dans." You run will you in the chart without making up a singua - but you won't be in with All you have to do in fill in the form below (as copy it out if you don't want to dam-Varies for Week 58 cisees at June on Wednesday November 6 1985, Entries received at My top 3: Voting Week 50 AUCEnvirus CHCH Co ON Micropean SI Colds I bus Greeks English C true Materiranis Con







New Releases



Price Elif

When the MIX machines



Sones, 0277 230202. Arbetanelli, Fartail. Artic. Main Street. don, N1 6NJ, 01-729 4292 Infinite, 73 Alcester Road, Moseley, Stroningham 13. Level 9, 229 Highenden Road, Moselley,

33/6 Microsofters, 72 Rosebury Road, London NYS IV A. SLAWS

Dicey business



Intelligent woman

There is alrectately no evidence to

The Hackers

Miles Lievel

Winner of Puzzle 126





Ingenious...













Cat. No. 050

who hate computer games Give your joystick a rest, and your brain a chance with these family favourites. Software by...

Leisure

Genius



DAT MOSE DATE AZOREZ

